

# Harsh Agarwal

## SUMMARY

Motivated Computer Science and Engineering student with a solid foundation in software development, machine learning, and data analysis. Experienced in developing end-to-end applications using Python, Flask, and ML Algorithms. Proficient in gathering, cleaning, and analyzing data to build accurate models and deploy interactive web applications. Passionate about learning technology to solve real-world problems and constantly improving through hands-on projects. Eager to apply my skills in a dynamic environment and contribute to innovative, impactful projects while growing professionally.

## PROJECTS

### **Rent Wise — ML Model for Accurate Rental Price Estimation**

<https://rentwise-1.onrender.com>

- Developed a complete end-to-end rental price prediction system using machine learning with **data scraped** from MagicBricks.com.
- Trained an **XGBoost regression** model using key features such as location, area, BHK, and furnishing status to ensure accurate predictions.
- Built a responsive and intuitive **web interface** that allows users to input property details and receive real-time rent predictions.
- Applied **data preprocessing** techniques including feature scaling and encoding to improve model performance and generalization.
- **Fine-tuned** hyperparameters to enhance model accuracy and reliability.

### **Road Accident Analysis — Data-Driven Insights for Traffic Safety**

<https://github.com/harshaga819/accidentDataAnalysis->

- **Project Overview:** Studied accident data to find key factors influencing crash severity and frequency across different conditions.
- **Optimized Performance:** Cleaned data, selected key features, and used visualizations to highlight trends in accident causes.
- **Code Quality:** Wrote clear, documented code with structured analysis, modular design, and basic machine learning models.
- **Impact:** Identified risky conditions and locations, helping improve traffic planning and road safety measures.

### **IPL Auction 2025 Analysis - Uncovering Trends in Player Value & Team Spending**

<https://github.com/harshaga819/ipl2025AuctionAnalysis>

- Extracted IPL 2025 auction data by implementing **web scraping** using Python libraries like BeautifulSoup and Requests to collect player details, prices, and team allocations.
- Processed and structured the dataset using Pandas for efficient **data handling**, including cleaning, formatting, and dealing with missing values.
- Performed in-depth analysis to **uncover patterns** such as top player buys, team-wise budget usage, and role-based or nationality-based trends in the auction.
- Created impactful **visualizations** using Matplotlib and Seaborn to clearly represent insights and make the analysis more interpretable for cricket enthusiasts and analysts.

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Portfolio: [harshagarwal.netlify.app](https://harshagarwal.netlify.app)

Linked In: [linkedin.com/harshaga819](https://linkedin.com/harshaga819)

## SKILLS

AI/ML Tools: Numpy, Pandas, Matplotlib, Seaborn, Sklearn, ML Algorithms

Language: Python, C, C++

Database: SQL, MYSQL

Version Contry: Git, Github

## Certifications

DATA BASE MANAGEMENT SYSTEM (NPTEL)

PROBLEM SOLVING (HACKER-RANK)

## Education

Arya College of Engineering and IT  
Bachelor in computer science  
(2022-2026)

MPS International School  
Major in Phy., Math, Chem.  
(2020-2022)

## Interest

Reading News

Listing to music